

FIG. 1

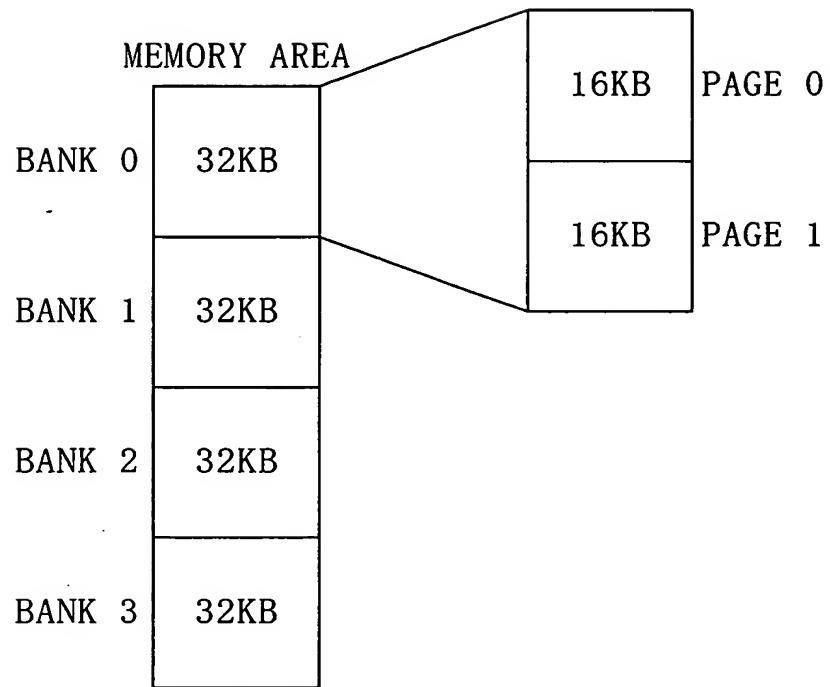


FIG. 2

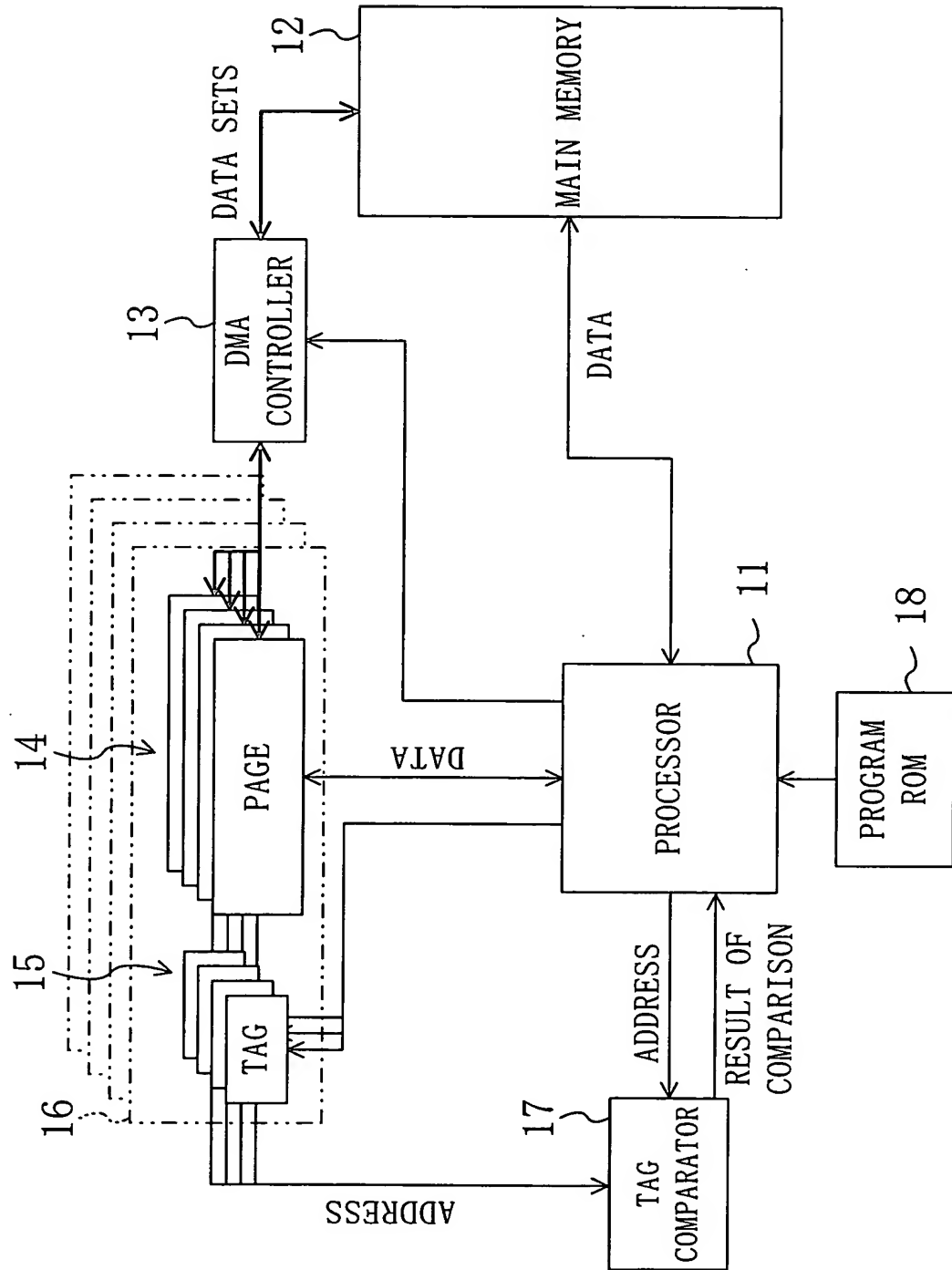


FIG. 3

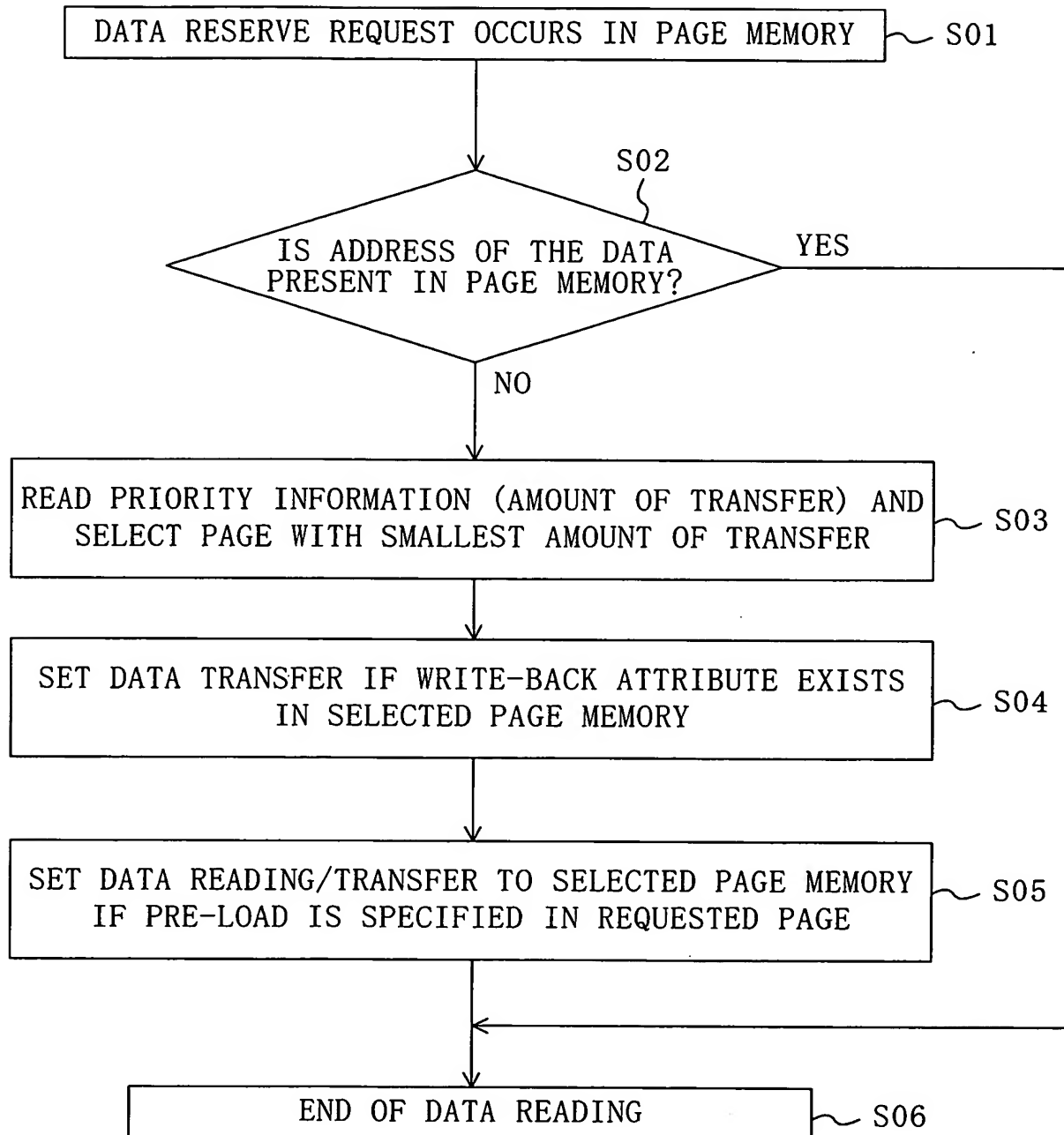


FIG. 4

WRITE-BACK ATTRIBUTE	PRE-LOAD ATTRIBUTE	WEIGHT
ABSENT	ABSENT	0
PRESENT	ABSENT	1
ABSENT	PRESENT	1
PRESENT	PRESENT	2

FIG. 5

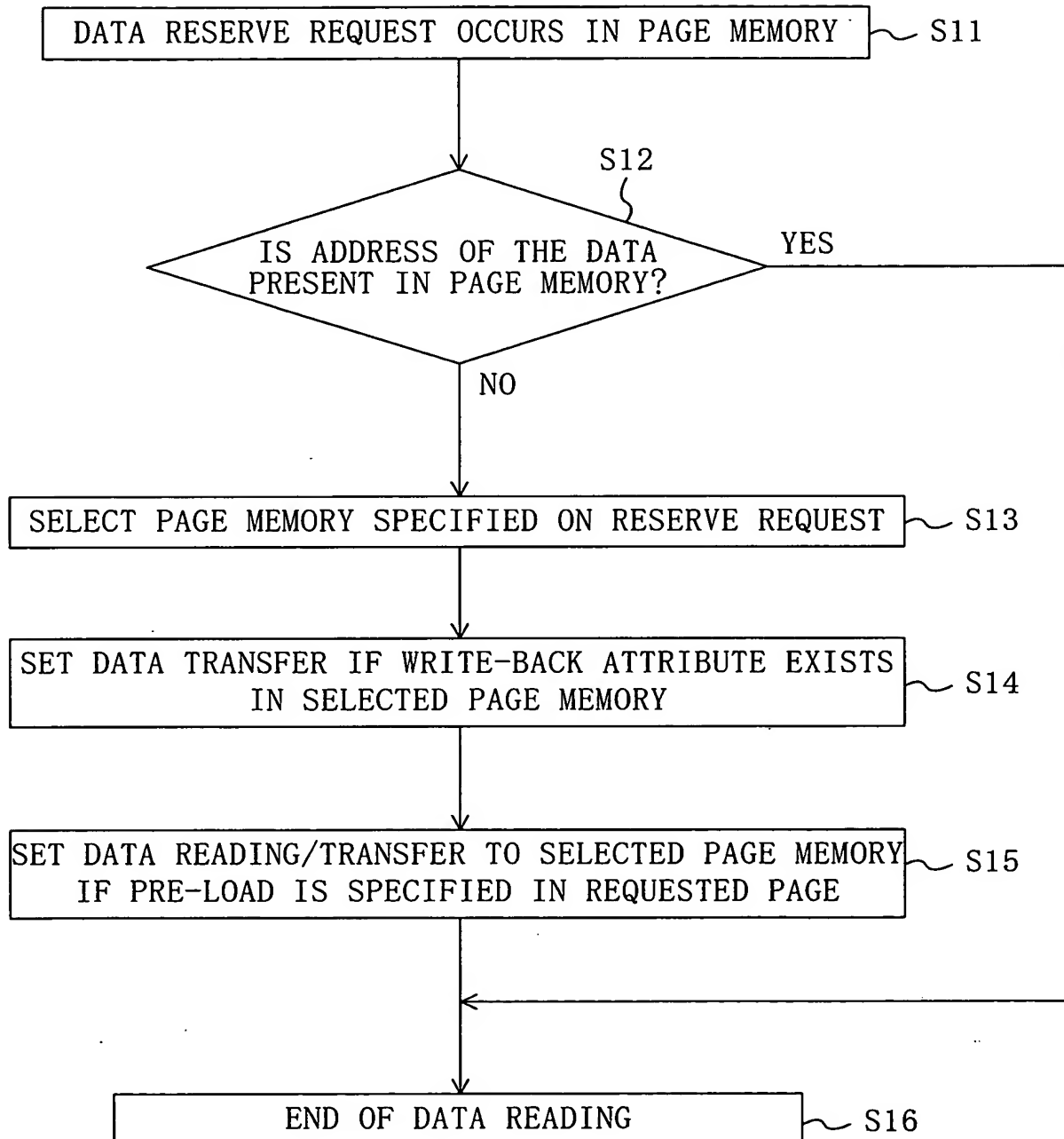
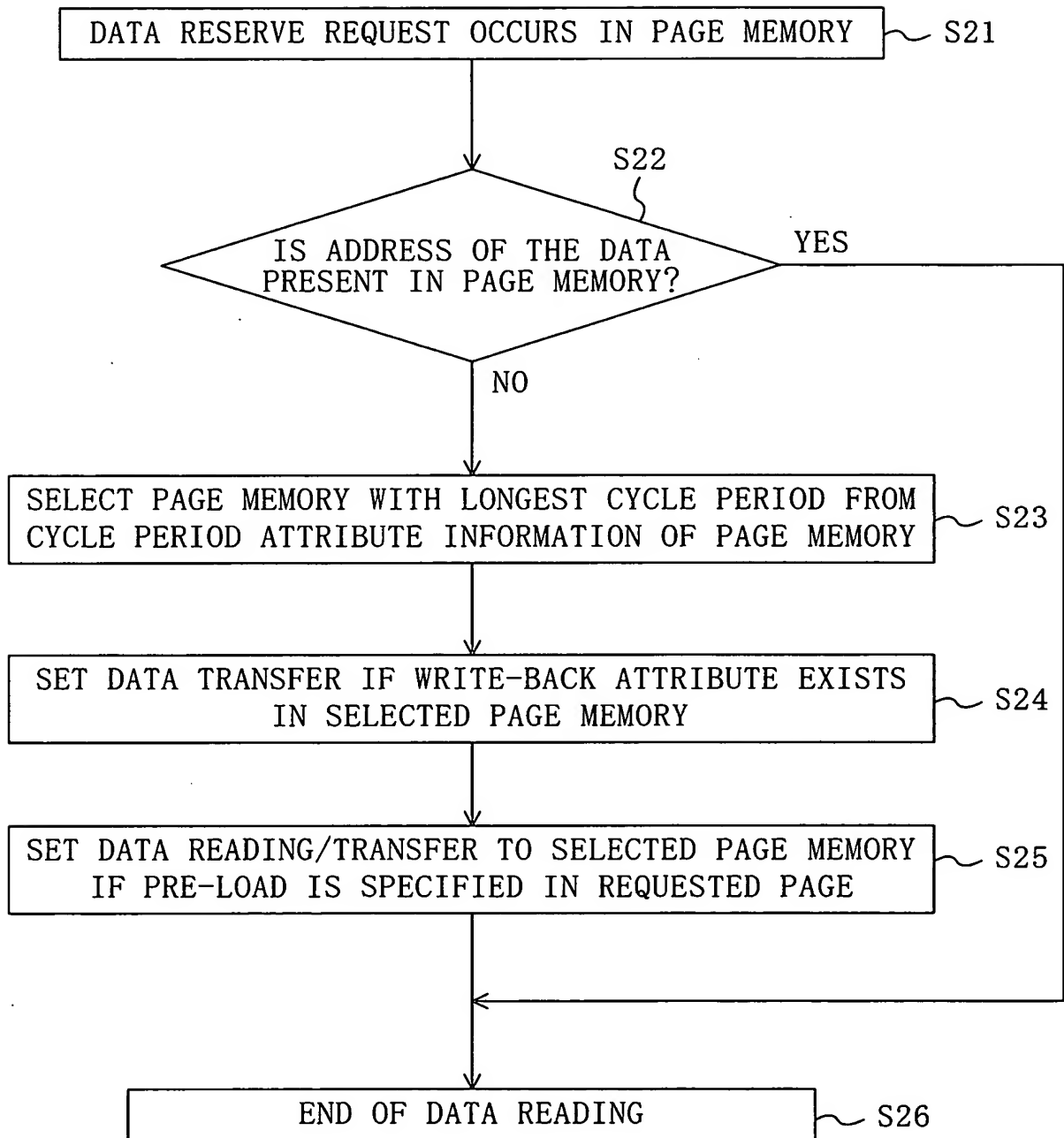


FIG. 6



• WHEN 10 MEMORIES EXIST

FIG. 7A

APPLICATION NAME
APPLICATION (A)
APPLICATION (B)
APPLICATION (C)

NUMBER OF ALLOCATED MEMORIES
4
3
3

EMPTY MEMORY REQUEST FROM  
APPLICATION (D)

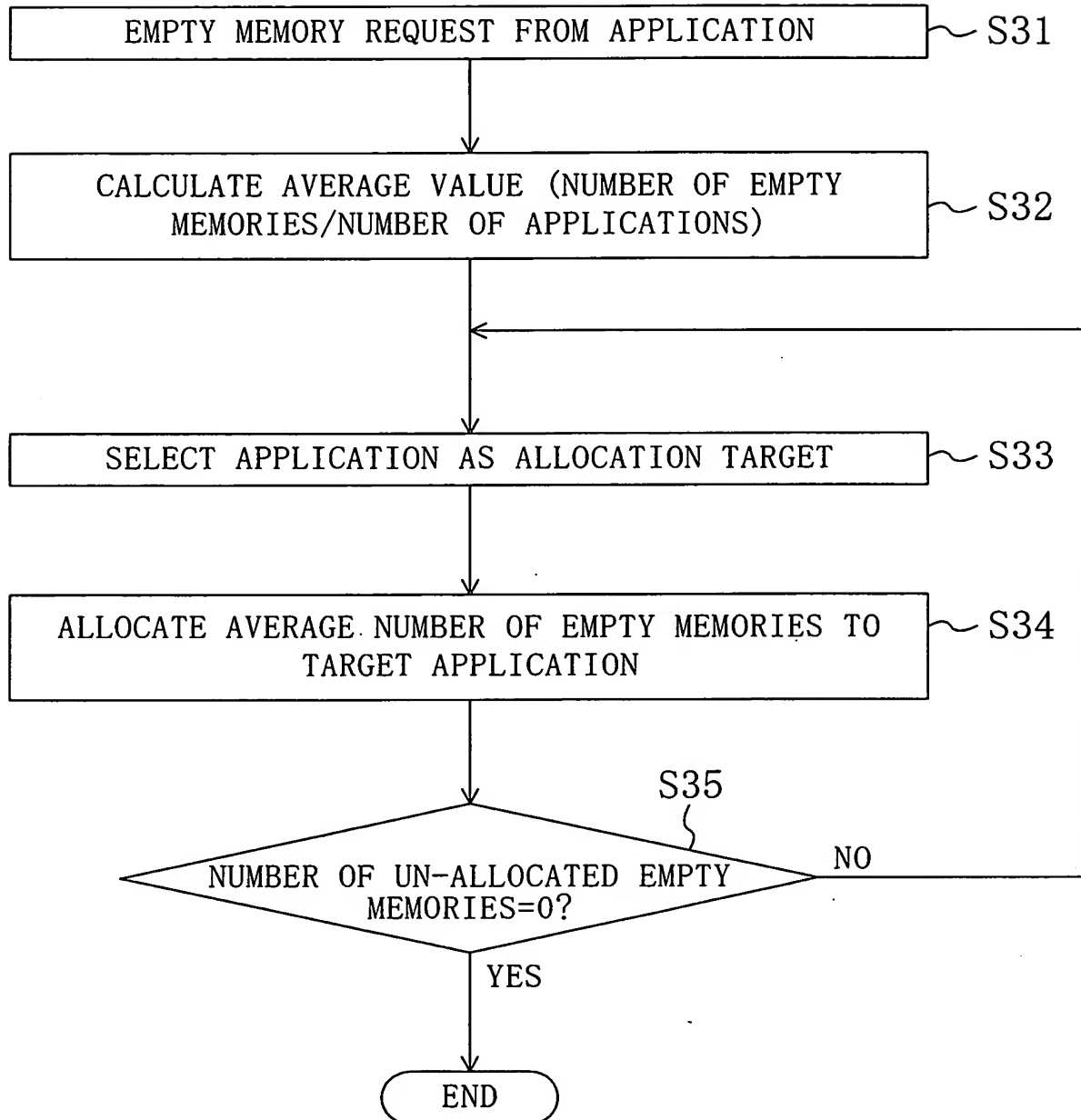


FIG. 7B

APPLICATION NAME
APPLICATION (A)
APPLICATION (B)
APPLICATION (C)
APPLICATION (D)

NUMBER OF ALLOCATED MEMORIES
3
3
2
2

FIG. 8





• WHEN 10 MEMORIES EXIST

FIG. 9A

APPLICATION NAME	PRIORITY	DESIRED NUMBER OF MEMORIES	NUMBER OF ALLOCATED MEMORIES
APPLICATION (A)	1	4	4
APPLICATION (B)	2	4	4
APPLICATION (C)	3	4	2

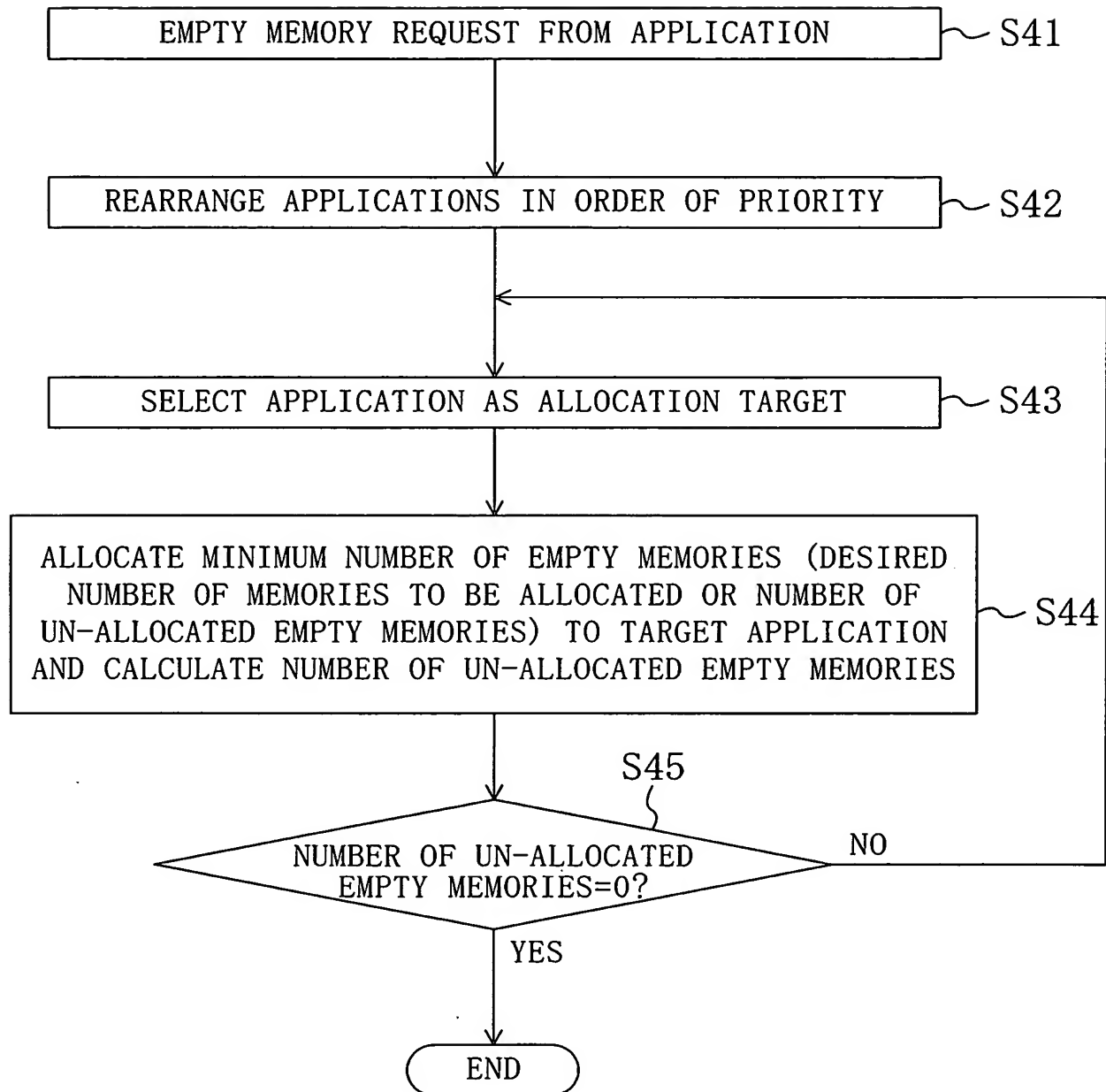
EMPTY MEMORY REQUEST FROM  
APPLICATION (D)



FIG. 9B

APPLICATION NAME	PRIORITY	DESIRED NUMBER OF MEMORIES	NUMBER OF ALLOCATED MEMORIES
APPLICATION (A)	1	4	4
APPLICATION (D)	1	4	4
APPLICATION (B)	2	4	2
APPLICATION (C)	3	4	0

FIG. 10



• WHEN 10 MEMORIES EXIST

FIG. 11A

APPLICATION NAME	OPERATION CYCLE[ms]	DESIRED NUMBER OF MEMORIES	NUMBER OF ALLOCATED MEMORIES
APPLICATION (A)	20	4	4
APPLICATION (B)	30	4	4
APPLICATION (C)	60	4	2

EMPTY MEMORY REQUEST FROM APPLICATION (D)



FIG. 11B

APPLICATION NAME	OPERATION CYCLE[ms]	DESIRED NUMBER OF MEMORIES	NUMBER OF ALLOCATED MEMORIES
APPLICATION (A)	20	4	4
APPLICATION (D)	20	4	4
APPLICATION (B)	30	4	2
APPLICATION (C)	60	4	0

FIG. 12

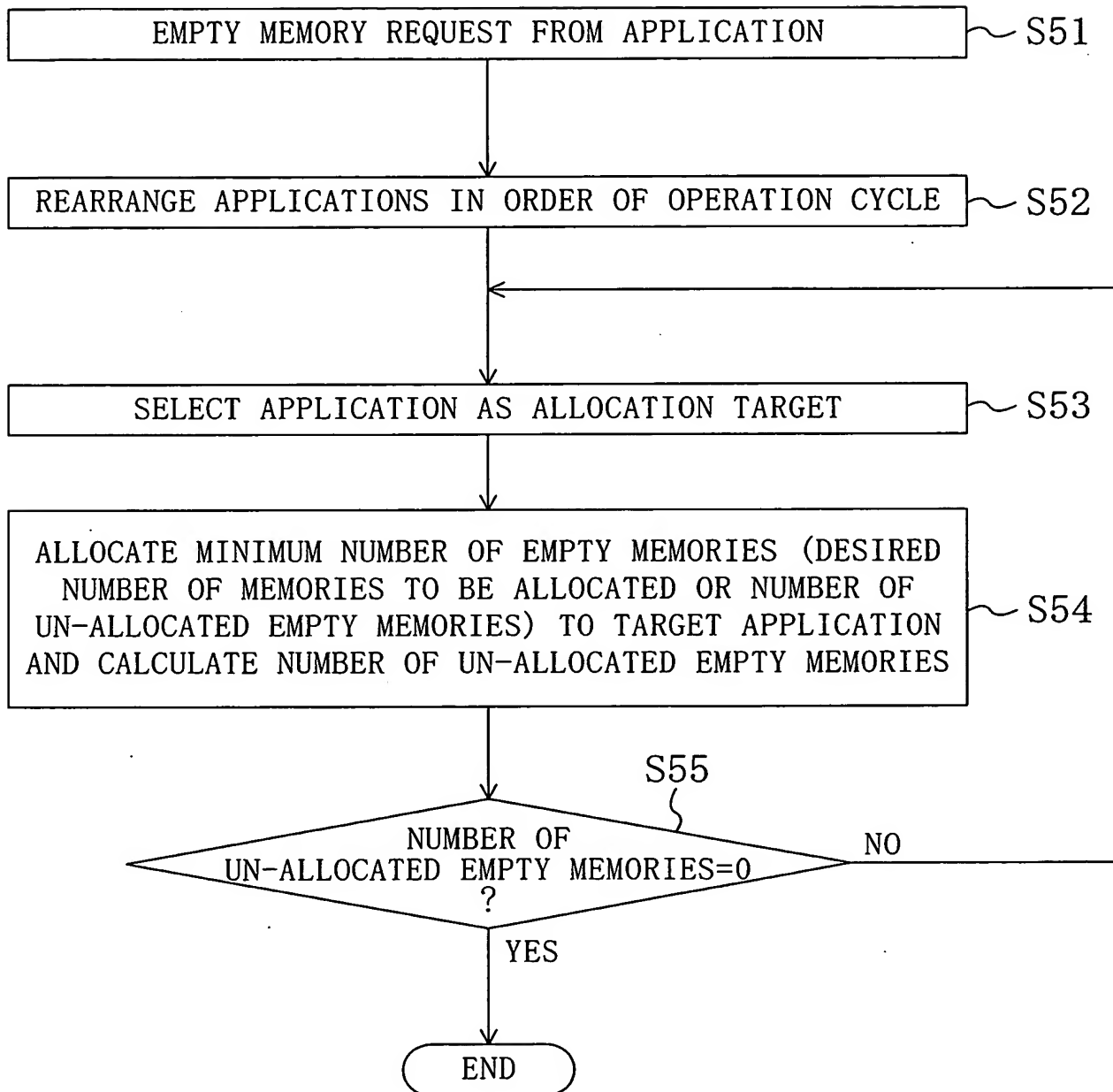


FIG. 13A

APPLICATION NAME	AMOUNT OF INFORMATION TRANSFERRED PER UNIT TIME	NUMBER OF ALLOCATED MEMORIES	NUMBER OF ACQUIRED MEMORIES
APPLICATION (A)	20	4	4
APPLICATION (B)	30	4	4
APPLICATION (C)	60	4	2

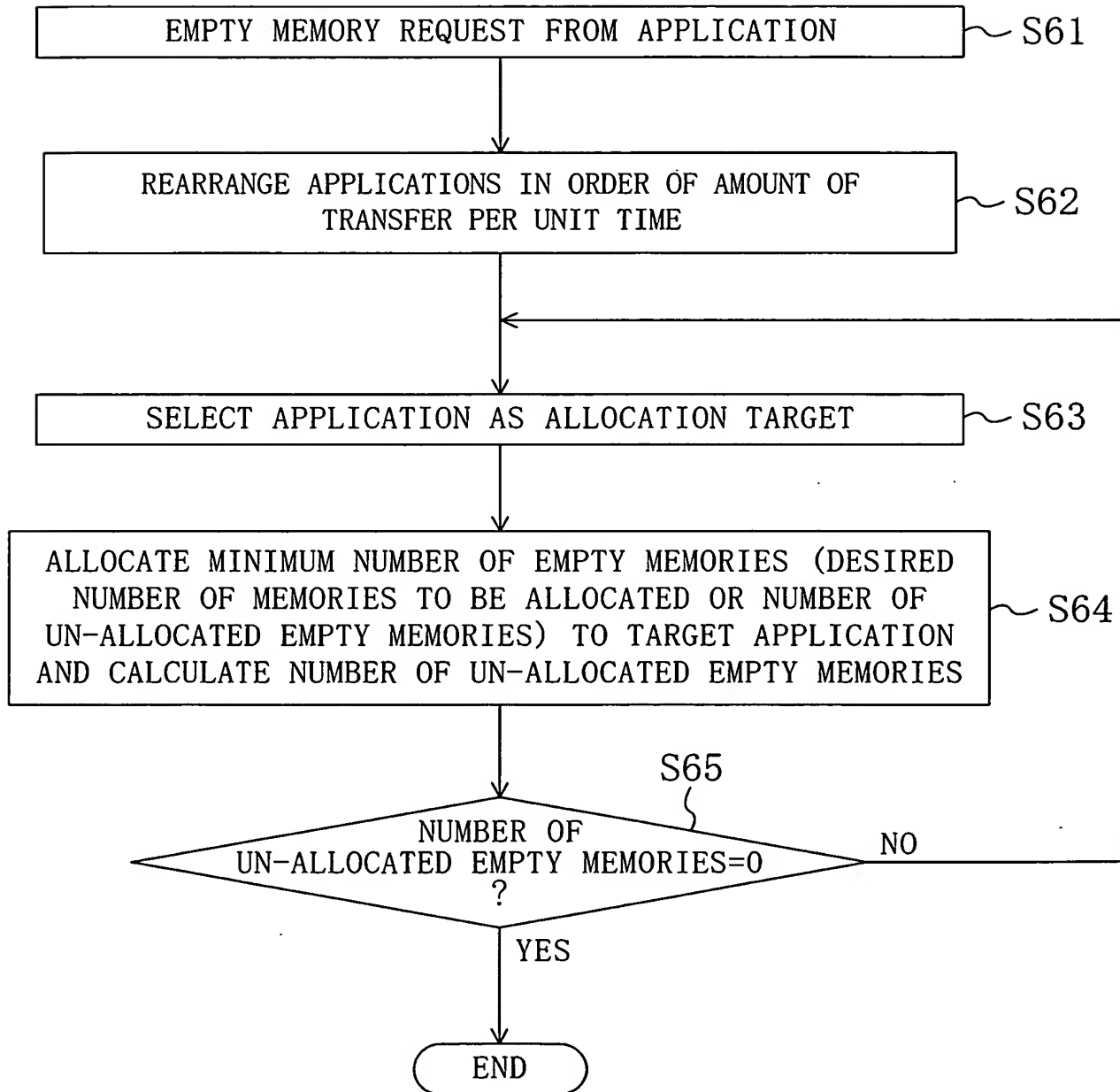
EMPTY MEMORY REQUEST FROM APPLICATION (D)

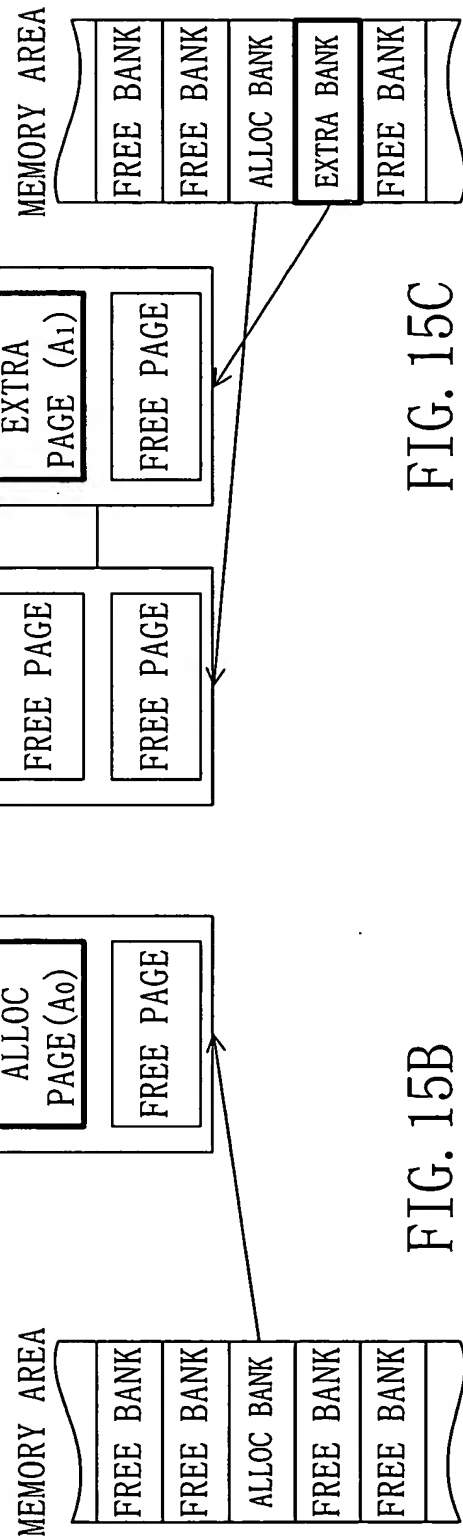
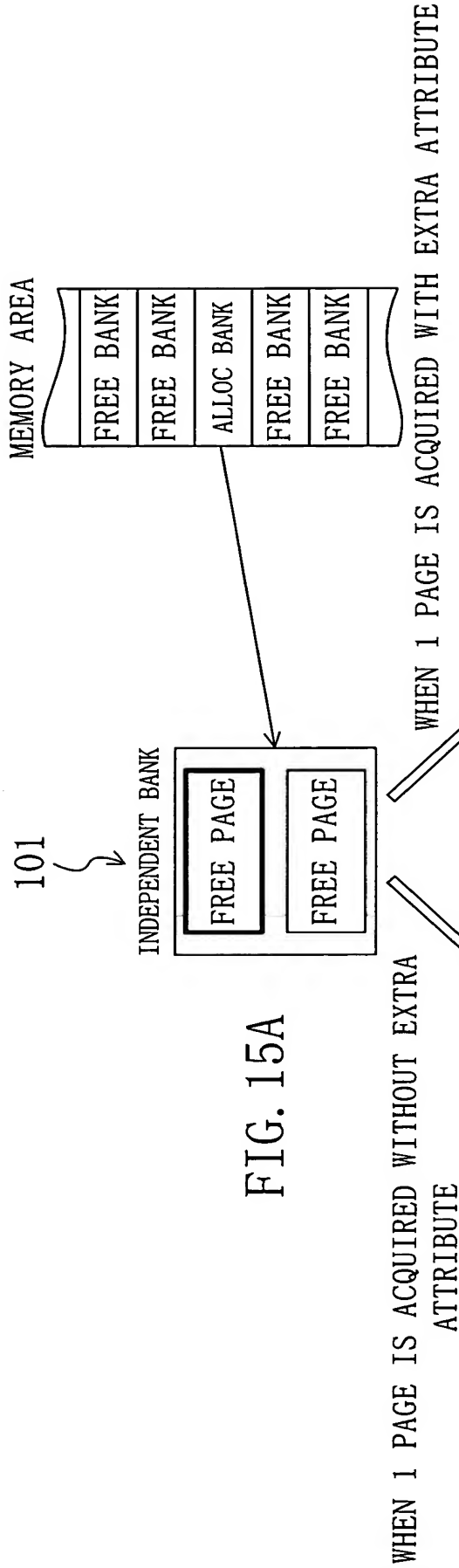


FIG. 13B

APPLICATION NAME	AMOUNT OF INFORMATION TRANSFERRED PER UNIT TIME	DESIRED NUMBER OF MEMORIES	NUMBER OF ACQUIRED MEMORIES
APPLICATION (A)	20	4	4
APPLICATION (D)	20	4	4
APPLICATION (B)	30	4	2
APPLICATION (C)	60	4	0

FIG. 14





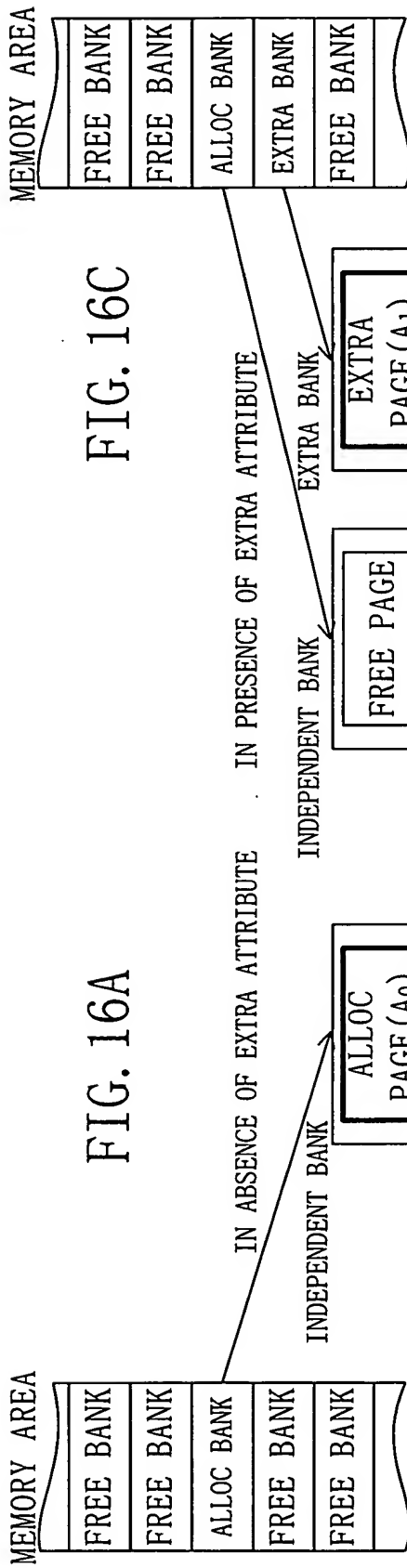


FIG. 16A

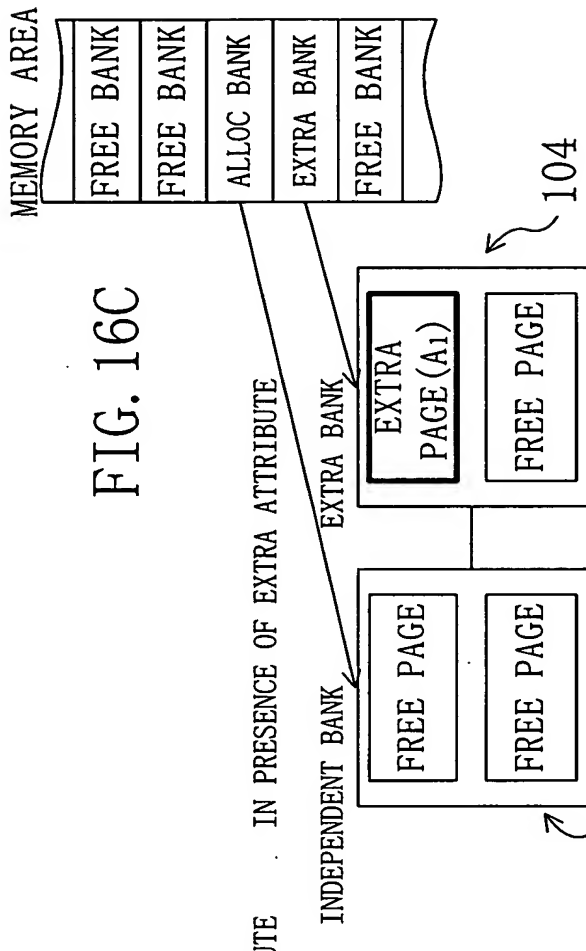


FIG. 16C

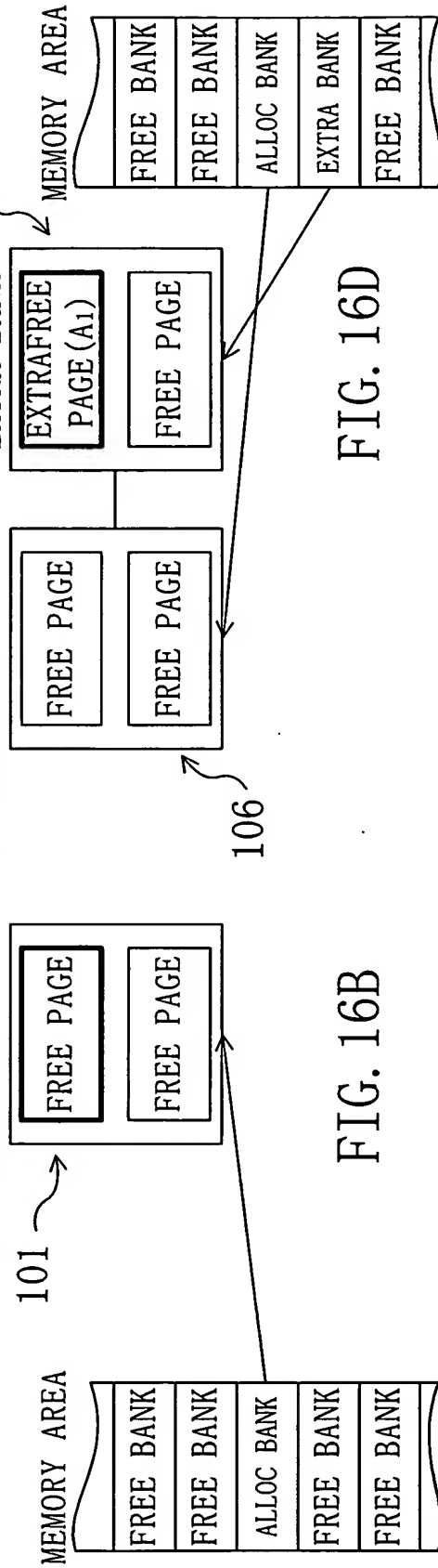


FIG. 16B

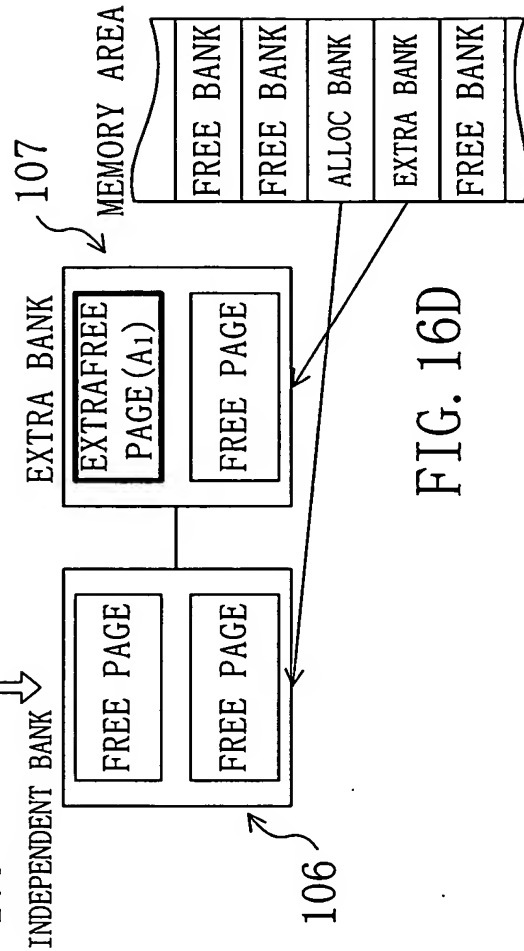


FIG. 16D



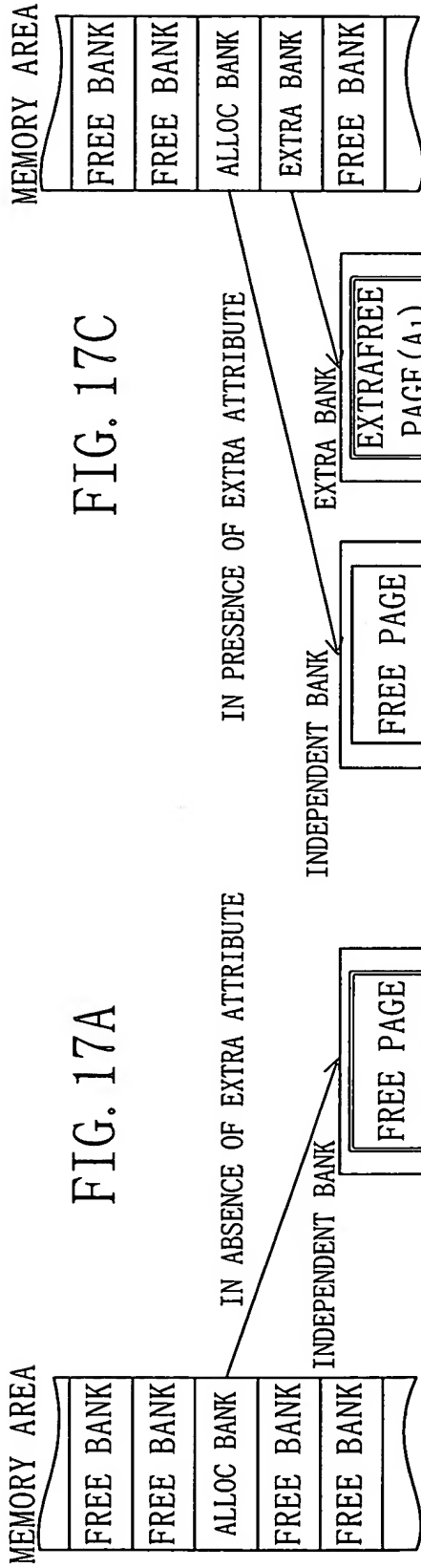


FIG. 17A

IN ABSENCE OF EXTRA ATTRIBUTE

INDEPENDENT BANK

101

INDEPENDENT BANK

102

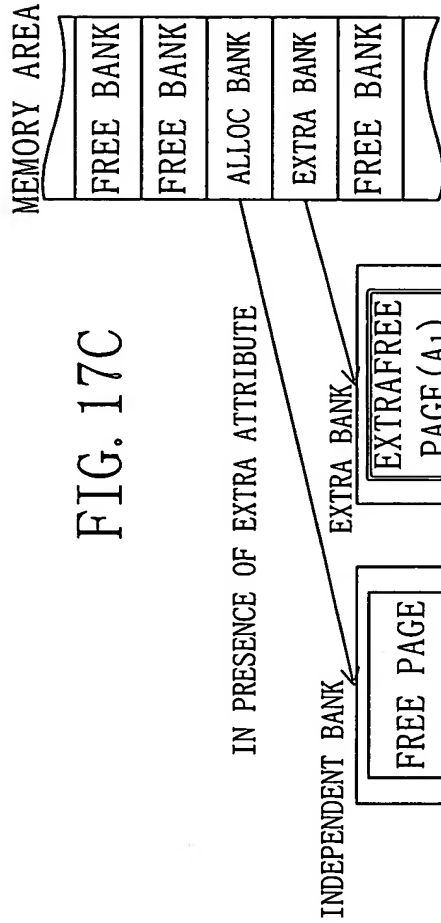


FIG. 17C

IN PRESENCE OF EXTRA ATTRIBUTE

INDEPENDENT BANK

106

INDEPENDENT BANK

104

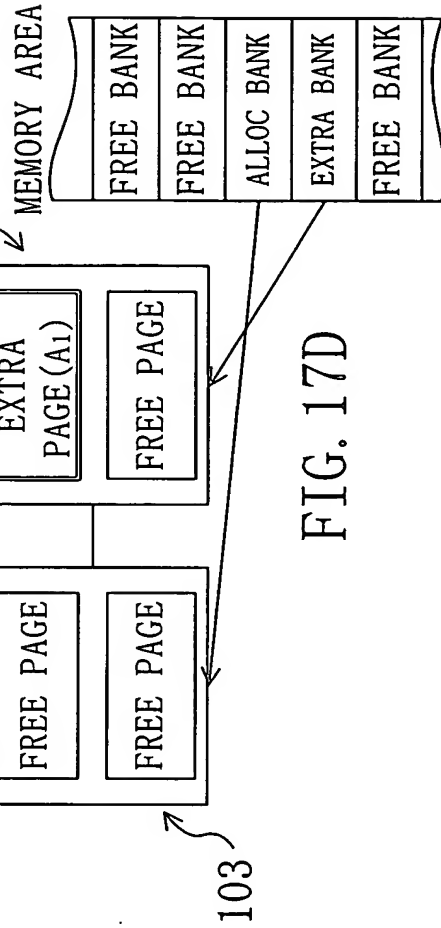


FIG. 17D

FIG. 17B

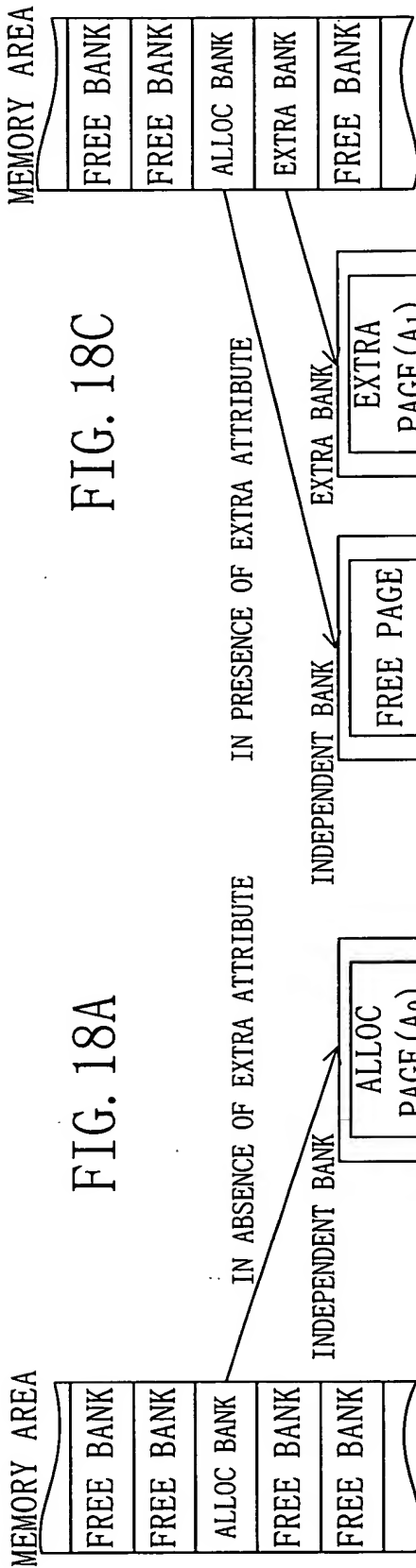
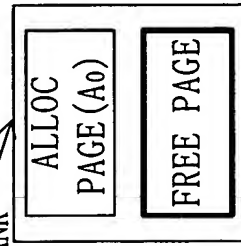


FIG. 18A

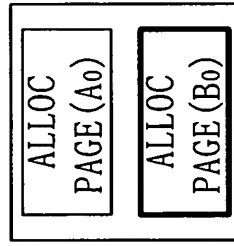
IN ABSENCE OF EXTRA ATTRIBUTE

INDEPENDENT BANK



102

INDEPENDENT BANK



109

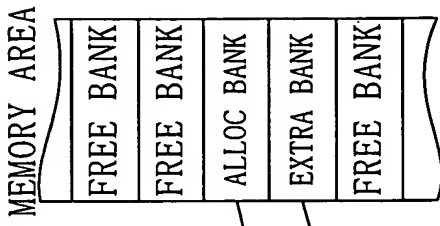
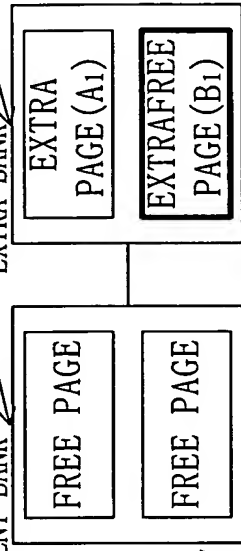


FIG. 18C

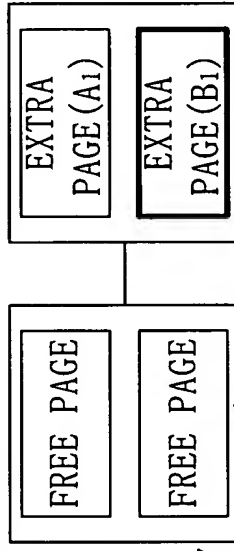
IN PRESENCE OF EXTRA ATTRIBUTE

INDEPENDENT BANK



103

INDEPENDENT BANK



110

111

EXTRA BANK

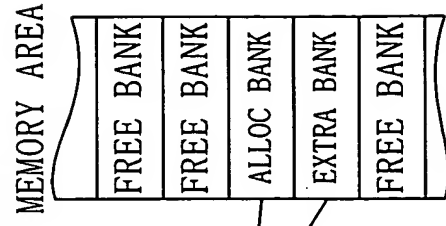
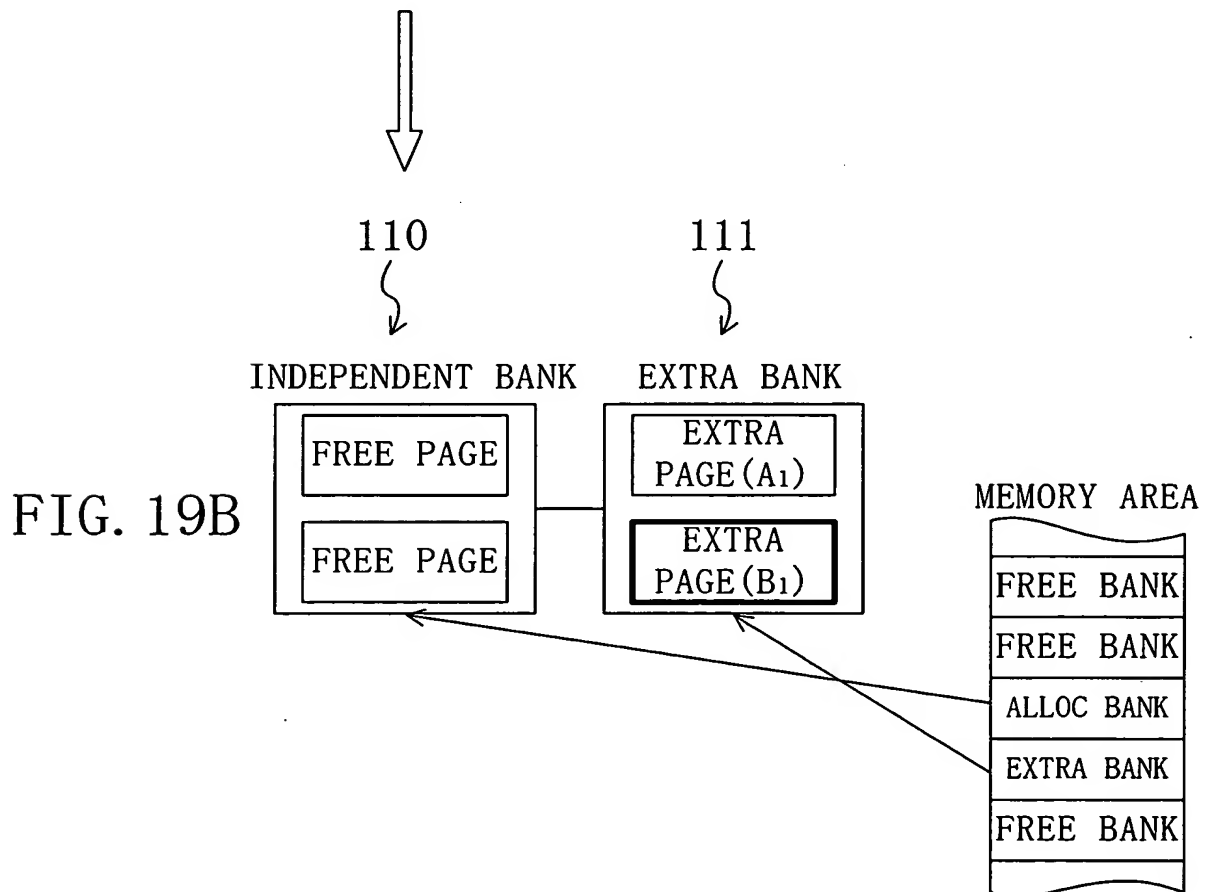
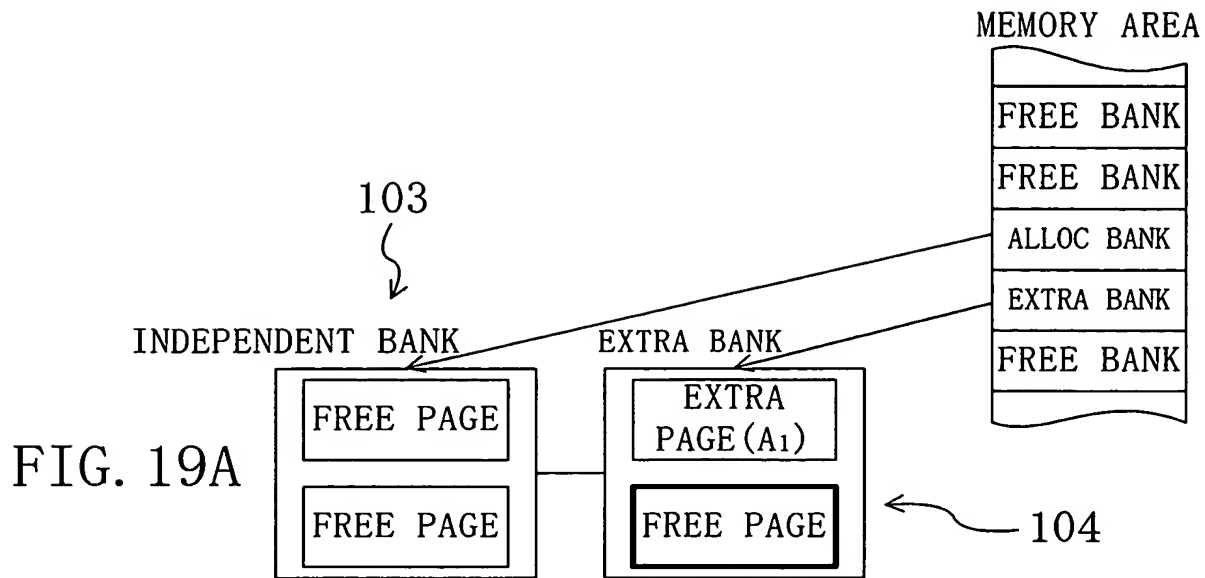
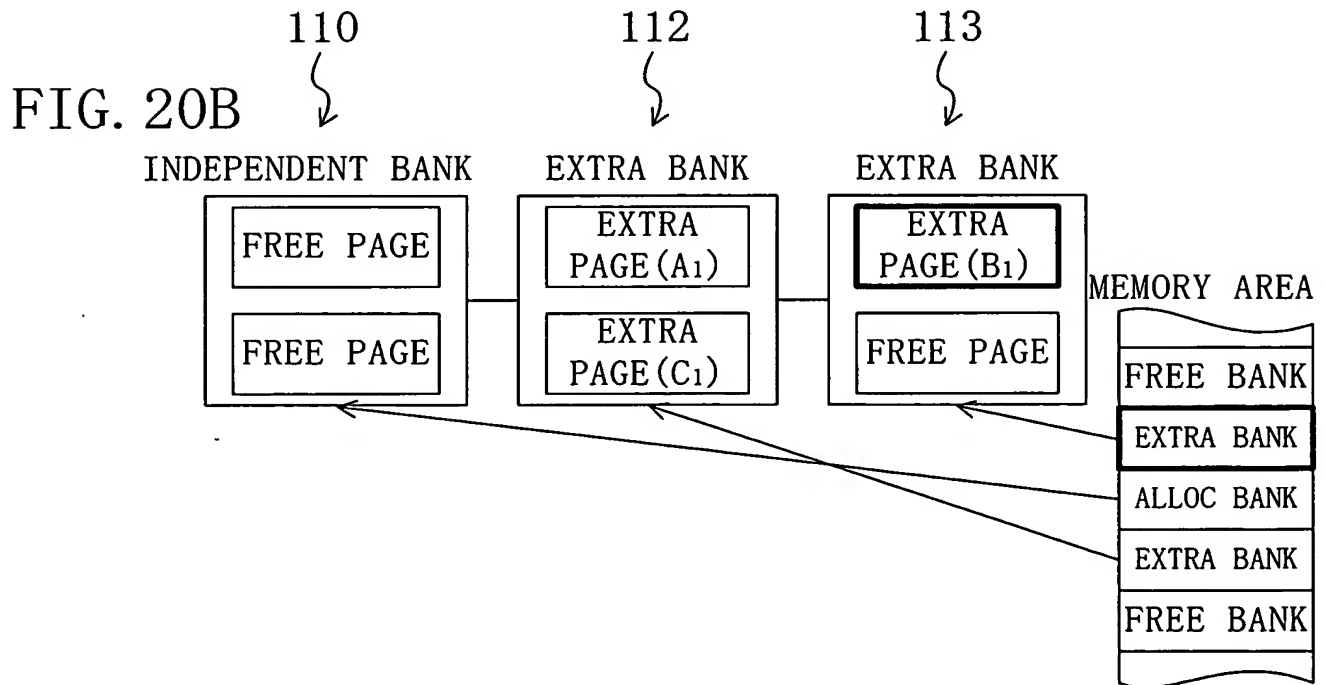
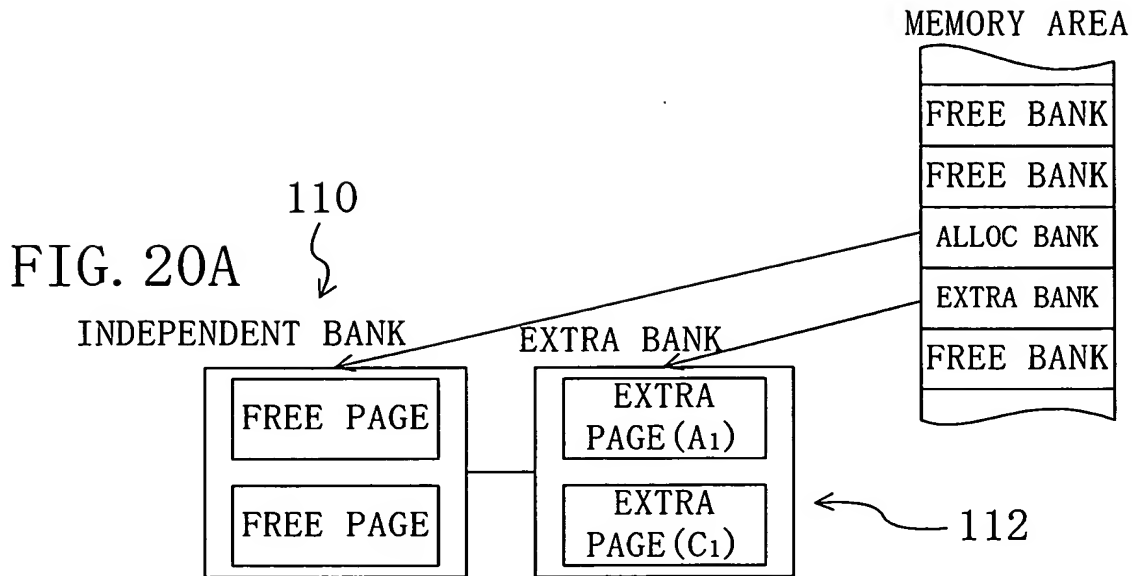


FIG. 18D

FIG. 18B





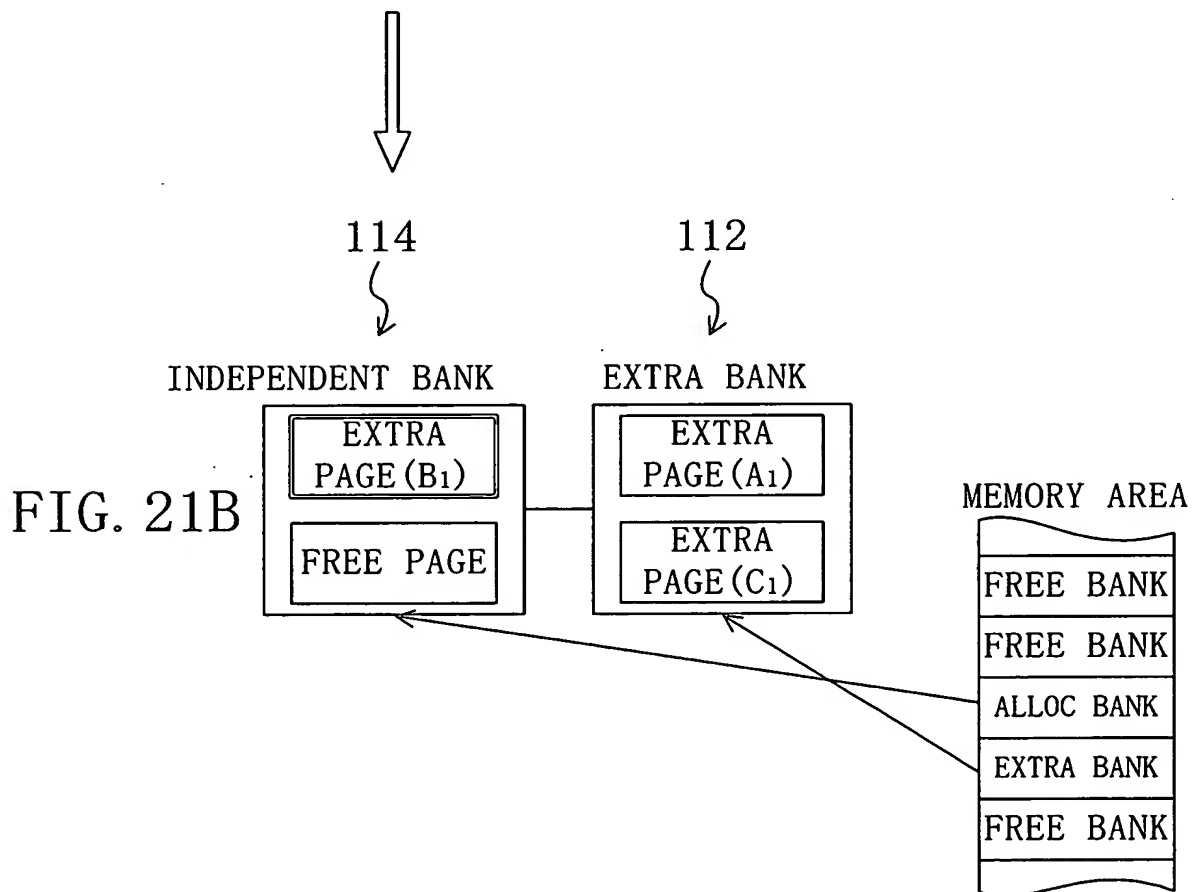
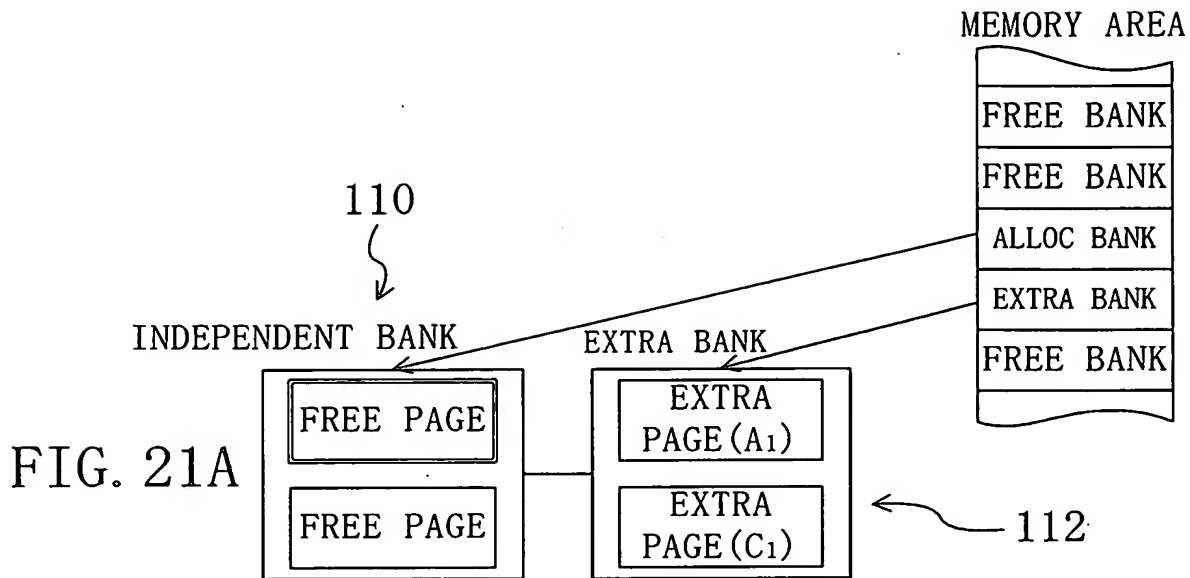


FIG. 22

	[A]	[B]	[C]	[D]
[1]	1	2	3	—
[2]	—	—	4	7
[3]	—	—	5	—
[4]	—	—	6	—
[5]	—	8	—	—

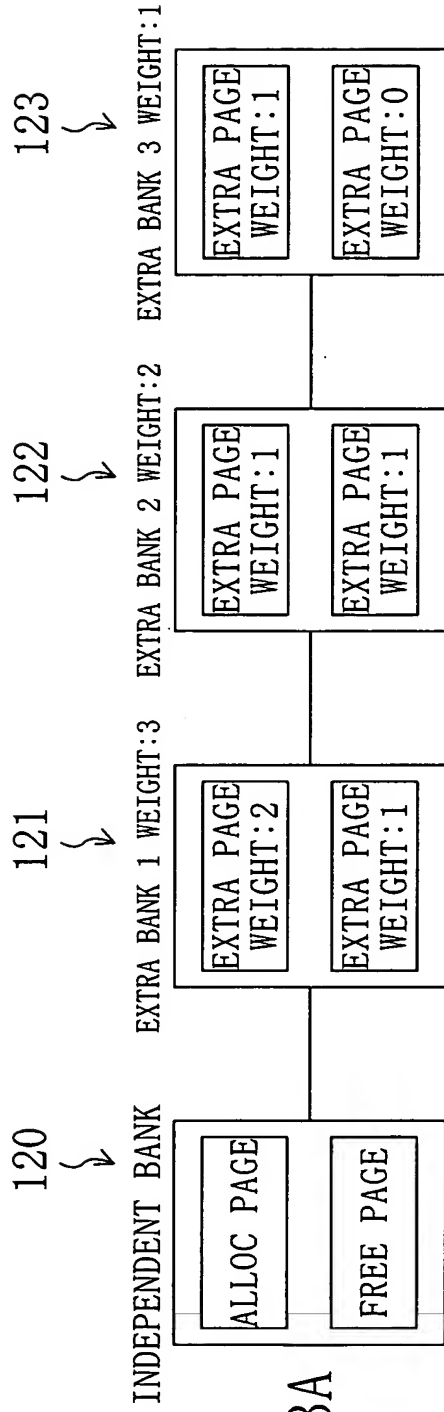


FIG. 23A

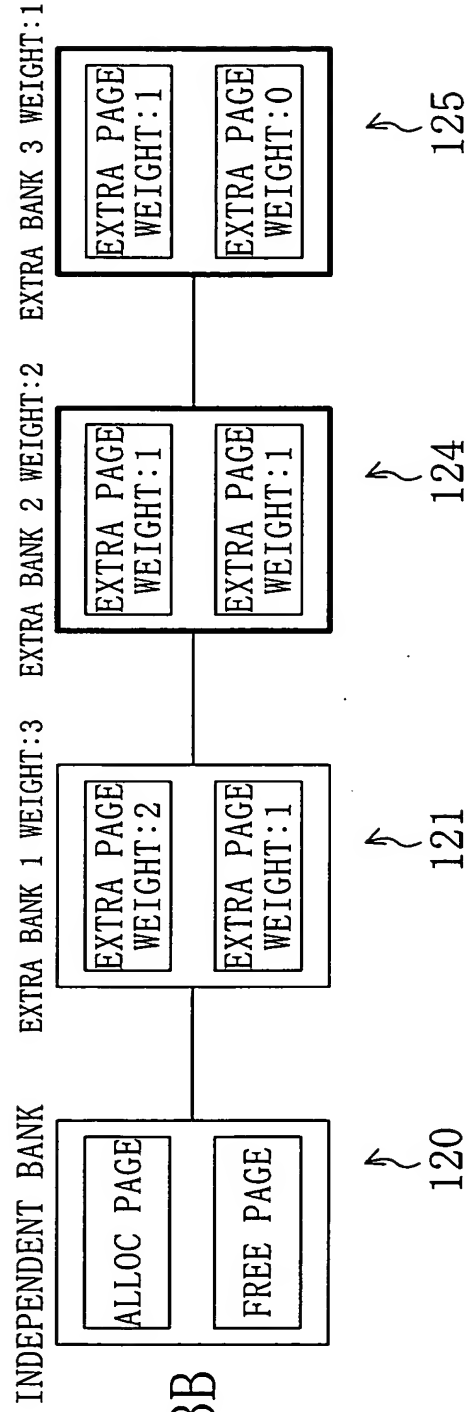
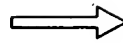


FIG. 23B

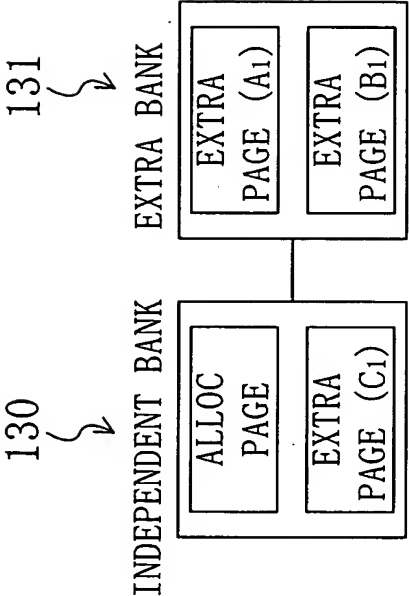
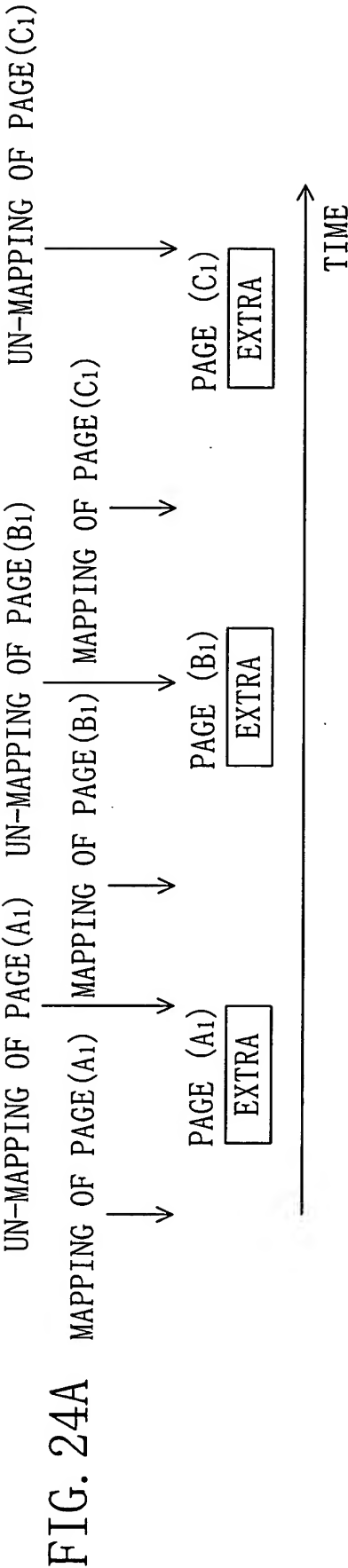


FIG. 24B



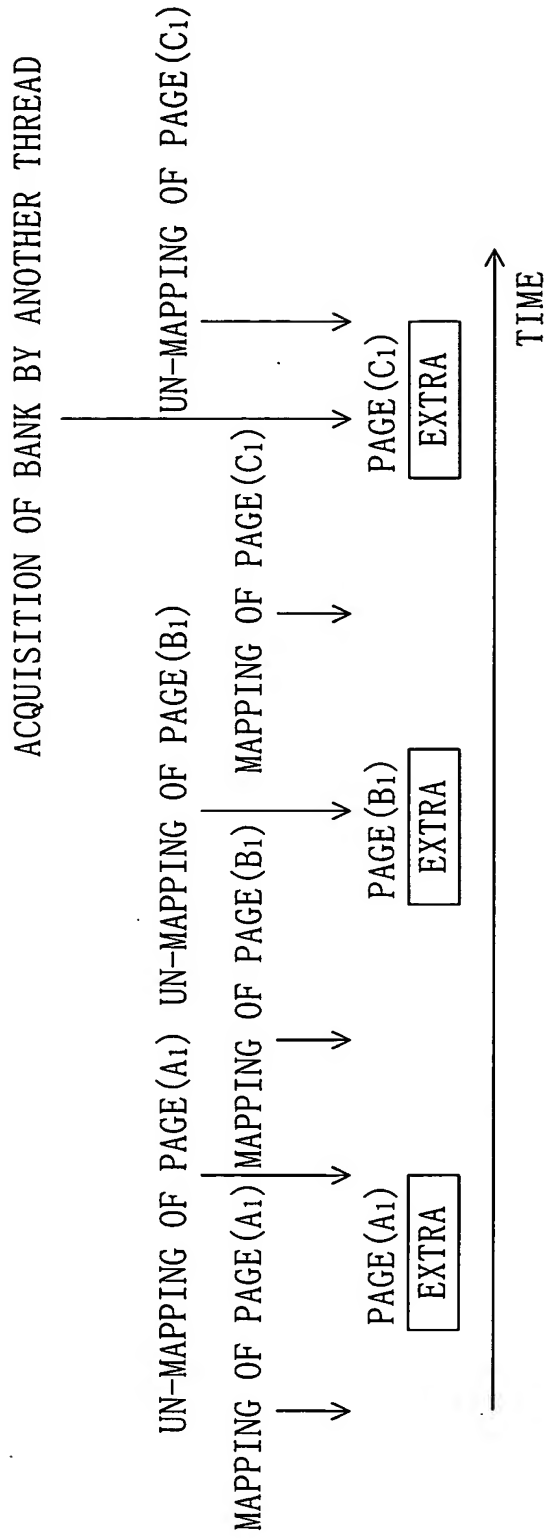


FIG. 25A

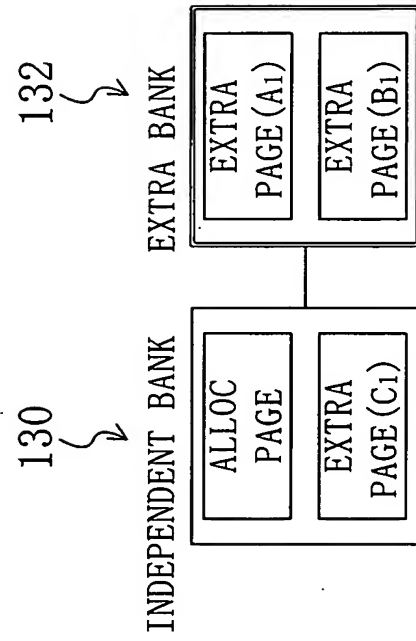


FIG. 25B

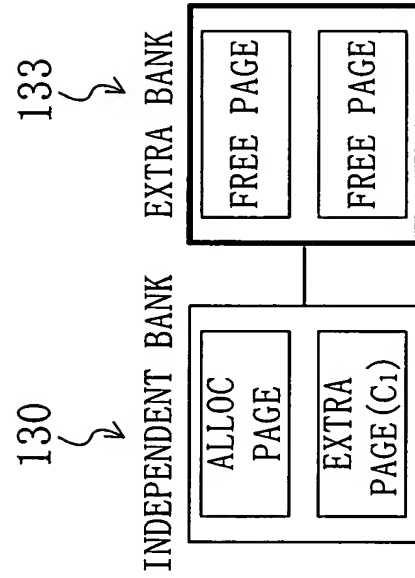
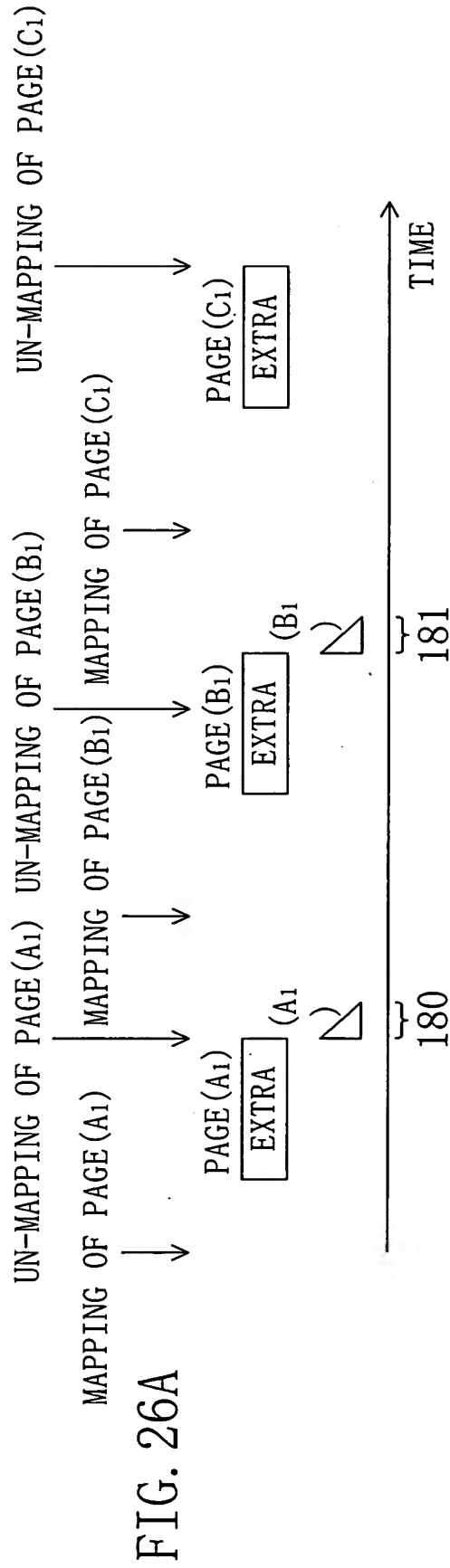


FIG. 27  
PRIOR ART

